IN THE CLAIMS

Please amend the claims as follows:

1. (Currently Amended) A diamond composite substrate, comprising:

a diamond monocrystalline substrate having first and second opposed main faces; and

a diamond polycrystalline film laminated thereon by a vapor phase synthesis,

wherein the diamond monocrystalline substrate having a thickness defined by a spacing between the main faces to be at least 0.1 mm and no more 1 mm.

2. (Currently Amended) A diamond composite substrate according to claim 1, wherein a difference between an orientation of ~~a~~ the first main face, which has a largest surface area of the diamond monocrystalline substrate, and an orientation of a {100} plane is no more than 5 degrees, and

the diamond polycrystalline film is laminated on ~~an opposite~~the second main face parallel to ~~said main~~the first face.

3. (Currently Amended) A diamond composite substrate according to claim 2, wherein the first main face is the {100} plane.

4. (Cancelled)

5. (Currently Amended) A diamond composite substrate according to ~~any of claims~~ claim 1 ~~to 4~~, wherein a thickness of the diamond polycrystalline film laminated over the diamond monocrystalline substrate is at least 0.1 mm and no more than 1 mm.

6. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 1 ~~to 5~~, wherein a ratio of the thickness of the diamond monocrystalline substrate to the thickness of the diamond polycrystalline film is between 1:1 and 1:4.

7. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 1 ~~to 6~~, wherein the diamond monocrystalline substrate is made up of a plurality of diamond monocrystals all having a same orientation of the first main face having the largest surface area, and

~~these~~ the plurality of diamond monocrystals are joined by the diamond polycrystalline film formed by the vapor phase synthesis over ~~said~~ the diamond monocrystals.

8. (Currently Amended) A diamond composite substrate according to ~~any of claims~~ claim 1 ~~to 7,~~ wherein the difference between orientations of faces of the plurality of diamond monocrystals in a direction of rotation with respect to an axis perpendicular to the ~~main~~ faces thereof is no more than 2 degrees, and

the difference between the orientations of the ~~respective main~~ faces of the plurality of diamond monocrystals and the orientation of the {100} plane is no more than 5 degrees.

9. (Currently Amended) A diamond composite substrate according to claim 8, wherein the orientation of the ~~main~~ faces of the plurality of diamond monocrystals is {100}.

10. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 7 ~~to 9~~, wherein a difference in thickness between the respective diamond monocrystals is no more than 10 μm.

11. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 7 ~~to 10~~, wherein a gap between the plurality of diamond monocrystals is no more than 500 μm.

12. (Currently Amended) A diamond composite substrate, wherein a diamond monocrystalline substrate having first and second opposed main faces is made up of a plurality of diamond monocrystals in which a difference between orientations of the diamond monocrystals in a direction of rotation with respect to an axis perpendicular to ~~main~~ faces ~~thereof~~ of the diamond monocrystals is no more than 2 degrees,

~~and~~ a difference between orientations of the ~~respective main~~ faces of the plurality of diamond monocrystals and an orientation of a {100} plane is no more than 5 degrees, the plurality of diamond monocrystals are joined by a diamond polycrystalline film formed by a vapor phase synthesis on ~~an opposite~~the second face parallel to the ~~respective main~~ faces of the plurality of diamond monocrystals, ~~and~~

an entire surface of ~~said~~ the first main face is integrated by vapor-phase synthesized diamond monocrystals grown using the diamond monocrystalline substrate as a seed crystal,

and

a spacing between the main faces is a thickness of the diamond monocrystalline substrate and at least 0.1 mm and no more than 1 mm.

13. (Currently Amended) A diamond composite substrate according to claim 12, wherein the orientation of the ~~main~~ faces of the plurality of diamond monocrystals is {100}.

14. (Cancelled)

15. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 12 ~~to 14~~, wherein a thickness of the diamond polycrystalline film formed by the vapor phase synthesis over the plurality of diamond monocrystals is at least 0.1 mm and no more than 1 mm.

16. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 12 ~~to 15~~, wherein a ratio of the thickness of the plurality of diamond monocrystals to the thickness of the diamond polycrystalline film is between 1:1 and 1:4.

17. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 12 ~~to 16~~, wherein a gap between the plurality of diamond monocrystals is no more than 500 μm.

18. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 12 ~~to 17~~, wherein a difference in the thickness between the plurality of diamond monocrystals is no more than 10 μm.

19. (Currently Amended) A diamond composite substrate according to ~~claims~~ claim 12 ~~to 18~~, wherein a surface of the diamond polycrystalline film has been polished.

20. (Currently Amended) A diamond composite substrate according to ~~any of claims~~claim 12 ~~to 19~~, wherein a surface roughness Rmax of the diamond polycrystalline film is no more than 0.1 μm.

21. (Currently Amended) A method for manufacturing a diamond composite substrate having first and second opposed main faces, ~~wherein~~

lining up a plurality of diamond monocrystals having a same orientation ~~are lined up,~~;

forming a diamond polycrystalline film ~~is formed~~ by a vapor phase synthesis over ~~said~~ the plurality of diamond monocrystals~~,~~; and

joining the plurality of diamond monocrystals ~~are joined by~~ with the diamond polycrystalline film,

wherein the diamond monocrystals have a thickness of at least 0.1 mm and no more than 1 mm.

22. (Currently Amended) A method for manufacturing a diamond composite substrate according to claim 21, wherein a deviation between the respective orientations of the plurality of diamond monocrystals in a direction of rotation with respect to an axis perpendicular to ~~main~~ faces thereof~~,~~ ~~which has~~ having a largest surface area, is no more than 2 degrees, and

a difference between orientations of the respective ~~main~~ faces of the plurality of diamond monocrystals and an orientation of a {100} plane is no more than 5 degrees.

23. (Currently Amended) A method for manufacturing a diamond composite substrate according to claim 22, wherein the ~~main~~ face having the largest surface area of the respective

faces of the plurality of ~~that make up~~ the diamond monocrystals is the {100} plane.

24. (Cancelled)

25. (Currently Amended) A method for manufacturing a diamond composite substrate according to ~~any of claims~~ claim 21 ~~to 24~~, wherein a thickness of the diamond polycrystalline film formed by the vapor phase synthesis over the plurality of diamond monocrystals is at least 0.1 mm and no more than 1 mm.

26. (Currently Amended) A method for manufacturing a diamond composite substrate according to ~~any of claims~~claim 21 ~~to 25~~, wherein a ratio of the thickness of the plurality of diamond monocrystals to the thickness of the diamond polycrystalline film is between 1:1 and 1:4.

27. (Currently Amended) A method for manufacturing a diamond composite substrate according to ~~any of claims~~claim 21 ~~to 26~~, wherein a difference in thickness between the plurality of diamond monocrystals is no more than 10 μm.

28. (Currently Amended) A method for manufacturing a diamond composite substrate according to ~~any of claims~~claim 21 ~~to 27~~, wherein a gap between the plurality of diamond monocrystals is no more than 500 μm.